



CITY OF LODI

COUNCIL COMMUNICATION

AGENDA TITLE: Purchase of Pavement Management Software System for Street Division (\$35,230)

MEETING DATE: May 17, 2000

PREPARED BY: Public Works Director

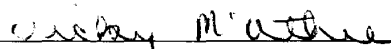
RECOMMENDED ACTION: That the City Council adopt the attached resolution authorizing purchase of the PM+ System pavement management software from CHEC Consultants, Inc., of Redding, in the amount of \$35,230; and appropriate funds in accordance with the recommendation shown below.

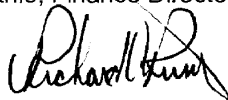
BACKGROUND INFORMATION: Public Works Department Street Division has been using a pavement management software system for over ten (10) years to assist in managing the maintenance strategies for the City's 172 miles of streets. The current investment in our existing street system is over \$112,000,000. The current software is difficult to operate in the Windows environment. It is no longer supported by the supplier and is not Y2K compliant. Since ISTE and TEA-21 grant funds require ratings and projections that our current system will not be capable of providing, we had requested \$20,000 as a placeholder in the Capital Improvement Budget.

Staff has evaluated five different software applications and recommends the purchase of the PM+ System designed by CHEC Consultants, Inc. The City of Lodi has had a long-standing working relationship with CHEC. Their proposal of \$35,230 addresses data conversion from the old PMS, system installation and setup, field data collection training, system training, and system modifications and customization. CHEC's proposal is attached.

This software program meets Federal and Regional requirements for grant funding. This pavement management program will be installed in our network system and will be available to the Public Works Department Engineering Division for use as well. An additional \$5,770 above the proposal price is requested for follow-up training for Engineering Division staff and for additional review of entry of data and rating calibration. It is very important that our pavement ratings be consistent and properly done in order to obtain the huge benefits of a pavement management system.

FUNDING: Budgeted: Measure K Funds \$20,000
TDA Funds \$21,000
Requested Appropriation: \$41,000
Funding Available:


Vicky McAthie, Finance Director


Richard C. Prima, Jr.
Public Works Director


Stan Helmle, Info. Systems Mgr.

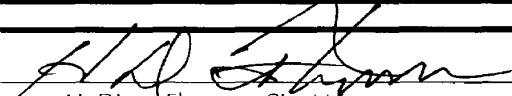
Prepared by George M. Bradley, Street Superintendent

RCP/GMB/dsg

Attachments

cc: Randy Hays, City Attorney
Joel Harris, Purchasing Officer
George Bradley, Street Superintendent

APPROVED: _____


H. Dixon Flynn -- City Manager

Looking For Pavement/Infrastructure Management Services?



Call CHEC Consultants
(800) 523-2223

Pavement/Infrastructure Management Services
tailored to your agency's specific needs.
If you need a system or wish to update
and/or enhance your current system,
CHEC us out!

About Our Services...

Multi-Level Management Systems, plus...

- Dynamic Deflection Testing
- Separate Infrastructure Modules
- GIS Linkage
- User-Set Default Data
- Engineering Design
- Dynamic Segmentation
- Maintenance Consulting
- Work Management Systems
- Staff Training
- Training Seminars
- Flexible Systems
- Windows/Pull-Down Software
- Prediction Modeling
- "What if?" Scenarios

Our list of satisfied clients keeps growing...

A rapidly growing number of clients have benefited from
CHEC's Pavement/Infrastructure Management System.

Here is a small list of our satisfied clients:

PUBLIC SECTOR

Portland, OR • Concord, CA • Hemet, CA • Albany, OR • Jackson County, OR • San Luis Obispo, CA

PRIVATE SECTOR

Bank of America • K-Mart • HOAs/PUDs Nationwide

A more detailed client list is available upon request.

Spectrum of Services...

Signs & Striping
Sidewalks

Curbs/Edging/Manholes

Trees

Work Management

G.I.S. Systems

Sanitary/Water

Lights & Signals

Pavements

**Pavement/Infrastructure
Management Services**

**ENGINEERING
CONSULTANTS**

Ancillary Services...

While CHEC's Pavement/Infrastructure Management Services Operation has been growing substantially, we also offer the following services:

- Pavement Engineering, Design and Rehabilitation Recommendations
- Construction Services
- Development of Plans, Specifications, and Estimates (PS & E)
- Disaster Response Services
- Training Seminars
- Maintenance Management
- Asset Management

PM+ CHEC List...

- Update/Expansion of Existing Systems
- User Defined Maintenance/Rehabilitation
- Free Telephone Support
- On Time and Within Budget
- Customized Infrastructure Management Modules
- Total Customization
- Turn-Key Services Available
- GIS Compatibility
- Building Block Approach

Why Don't You Give CHEC a Call?

We would appreciate being placed on your list of approved consultants to receive RFPs, and are available to meet with you to discuss our services, recent work and capabilities. If you wish to set up a meeting, need references, or want additional information, please call (800) 523-2223.



(800) 523-2223

CORPORATE OFFICE:

8796 Airport Road • Redding, CA 96002

Voice (916) 222-2223 • Fax (916) 222-8260



Civil Consulting
Pavement Management
Asphalt Technology
Construction Services
Asset Management

April 4, 2000

Job No. 20152

City of Lodi
1331 South Ham Lane
Lodi, CA 95242-3995

Attn.: Mr. George Bradley
Street Maintenance Superintendent

Subject: I-Manage Pavements with Prediction Model

Gentlemen:

CHEC Consultants is glad to submit this proposal to assist the City of Lodi in the implementation of a pavement managements system. This proposal for the implementation of the I-Manage Pavements System designed by CHEC Engineering Consultants, Inc. CHEC estimates the entire contract to take three months, with 95% of the work being completed in the first month. The project will be executed as follows:

TASK 1 - Data conversion from the old PMS

CHEC has received the data file from the City, which is the database from the DOS PMS system. CHEC estimates the data conversion will at maximum take three weeks. This task will be completed by one of our Staff Programmers. At this time we estimate that Mr. Bryan Frerichs from our office will be that person.

Task 2 - System Installation and Set-up

After the data conversion and initial system settings have been entered the I-Manage Pavements System, CHEC will schedule, with the City, a time to perform the software installation and training on the system. This will save the City money, and allow the City staff to become familiar with the system immediately after it has been installed.

Task 3 - Field Data Collection Training

Per the City's request, CHEC will assist in learning the correct data collection procedure for entry into the PMS. Mr. James B. Curtis will teach a in-class classroom Defect identification and rating class prior to any field data collection. This task will be in conjunction to Task 4 of this proposal. After the field personnel have an understanding

TABLE 1

Cost Table
 InfraManager I-Manage Pavements System
SUMMARY OF COSTS
 City of Lodi, CA
 March 2000

| ITEM | DESCRIPTION | HOURS/ Items | COST PER HR/ITEM | AMOUNT |
|---|---|-----------------|---------------------|-----------------|
| Task 1 - Data Conversion from Old System | | | | |
| 2 | Assistant Manager / Staff Programmer | 120 | 65 | \$7,800 |
| Task 1 Total | | | | \$7,800 |
| Task 2 - Software & Installation | | | | |
| 1 | InfraManager "I-Manage Pavements" - Site Licence - 1 Year Technical Support - Manuals, 4 CD's, and Database Dictionary - InfoMaker - Custom Report Generator - 4 seat user database (Sybase SQL) | 1 | \$10,000 | \$10,000 |
| 3 | InfraManager "Budget Prediction Model" - Site Licence - 1 Year Technical Support - Manuals and Database Dictionary | 1 | 6,000 | 6,000 |
| 5 | Assistant Manager / Staff Programmer | 16 | 65 | 1,040 |
| 6 | Assistant Manager / Staff Programmer Travel | 8 | 45 | 360 |
| 7 | Per Diem | 2 | 95 | 190 |
| Task 2 Total | | | | \$17,590 |

of the defects and the data entry procedures, CHEC will supply two Sr. Visual Condition Rating Technicians to accompany the City staff into the field for actual "hands on" training and data collection. The City shall supply the field laptops for all data collection performed during this training class.

Task 4 - System Training

This task will instruct the City on screen operation which includes items such as, data entry (add roads, blocks, and segments), delete roads, blocks and segments, change the costs, print, sort and filter reports, perform future projections using the five year plan and the Budget Prediction Model.

During the first two days of training all field and data entry personnel should attend to fully understand the data entry and modification portion of the system. The third day is targeted for administration and project managers. Students will learn how to modify the systems parameters to fit the City's standards and practices. Concurrently, on the third day, the field personnel will start Task 3 above.

Task 5 - System Modifications and Customization

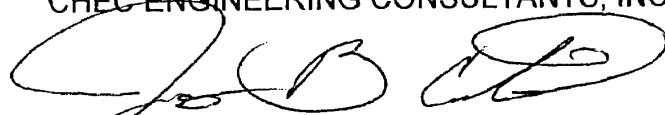
Because the City will be performing their own data collection, CHEC will return at a later date to help fine tune the systems. This will include adding any necessary treatments, or designs the City would like. There will be a field walk to verify data, preliminary field designs and make any modifications to the system. For more complex functions, or system modifications, I have included staff programmer time that can be used as needed. This task will be completed two to three months after the initial installation.

The total cost for all tasks above is \$35,230 and will be completed three to four months from the notice to proceed. Some tasks above depend on the City and the schedule may be accelerated based on the speed of the data collection personnel.

City of Lodi
April 4, 2000
Page 3

If you have any questions or need mor information please feel free to call me at (800) 523-2223. We look forward to working with the City on this and any other engineering project the City may have.

Yours for better pavements,
CHEC ENGINEERING CONSULTANTS, INC.

A handwritten signature in black ink, appearing to read 'J.B. Curtis', written over the company name.

James B. Curtis
Computer Services Manager

Cost Table
 InfraManager I-Manage Pavements System
SUMMARY OF COSTS
 City of Lodi, CA
 (Cont')

| ITEM | DESCRIPTION | HOURS/ Items | COST PER HR/ITEM | AMOUNT |
|---|--|-----------------|---------------------|----------------|
| Task 3 - Staff Training - Data Collection (3 day Class) | | | | |
| 1 | Project Manager | 4 | \$90 | \$360 |
| 2 | Sr. Visual Condition Rating Technician | 24 | 65 | 1,560 |
| 2 | Technician Travel | 8 | 45 | 360 |
| 3 | Vehicle Mobilization | L.S. | 350 | 350 |
| Task 3 Total | | | | <u>\$2,630</u> |
| Task 4 - System Start-up and Training | | | | |
| 1 | Project Manager | 24 | \$90 | \$2,160 |
| 2 | Assistant Manager / Staff Programmer | 8 | 65 | 520 |
| 3 | Project Manager Travel | 8 | 50 | 400 |
| 5 | Per Diem | 4 | 95 | <u>380</u> |
| Task 4 Total | | | | \$3,460 |
| Task 5 - Project Meetings/System Modifications - After Data Collection Completed | | | | |
| 1 | Project Manager | 20 | \$90 | \$1,800 |
| 2 | Staff Programmer | 30 | 65 | <u>1,950</u> |
| Task 5 Total | | | | \$3,750 |

PM+ Proposal Summary

| | |
|--|----------------|
| Data Conversion (three weeks) | \$7,800 |
| PM+ System (Includes all site licences for CHEC Software) | 17,590 |
| - all licences are one time charges | |
| Training Data Collection & System Operation | 6,090 |
| System Modifications and Alterations (2 months after install) | 3,750 |

Total Package

\$35,230



RESOLUTION NO. 2000-83

A RESOLUTION OF THE LODI CITY COUNCIL APPROVING
PURCHASE OF PAVEMENT MANAGEMENT SOFTWARE SYSTEM
FOR PUBLIC WORKS STREET DIVISION

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WHEREAS, Lodi Municipal Code, §3.20.070, authorizes dispensing with bids for purchases of supplies, services or equipment when it is in the best interest of the City to do so; and

WHEREAS, the Public Works Department Street Division has been using a pavement management software system for over ten years to assist in managing the maintenance strategies for the City's 172 miles of streets, and the current software is difficult to operate in the Windows environment and is no longer supported by the supplier and is not Y2K compliant; and

WHEREAS, the ISTE and TEA-21 grant funds require ratings and projections that our current system will not be capable of providing, and the Public Works Department had requested \$20,000.00 as a placeholder in the Capital Improvement Budget; and

WHEREAS, staff has evaluated five different software applications and recommends the purchase of the PM+ System designed by CHEC Consultants, Inc.; and

WHEREAS, the City of Lodi has had a long-standing relationship with CHEC, and their proposal of \$35,230.00 addresses data conversion from the old Pavement Maintenance Software, system installation and setup, field data collection training, system training, and system modifications and customization; and

WHEREAS, this software program meets Federal and Regional requirements for grant funding, and this system will be installed in our network system and will be available to the Public Works Department Engineering Division as well; and

WHEREAS, an additional \$5,770.00 is requested in addition to the proposal price for follow-up training for Engineering Division staff and for additional review of entry and rating calibration.

NOW, THEREFORE, BE IT RESOLVED that the Lodi City Council hereby approves the purchase of the Pavement Management Software System for the Street Division from CHEC Consultants, Inc., of Redding, California, in the amount of \$35,230.00 (which includes the cost of follow-up training for Engineering Division staff and for additional review of entry and rating calibration).

Dated: May 17, 2000

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I hereby certify that Resolution No. 2000-83 was passed and adopted by the City Council of the City of Lodi in a regular meeting held May 17, 2000, by the following vote:

AYES: COUNCIL MEMBERS – Hitchcock, Land, Pennino and Mann (Mayor)

NOES: COUNCIL MEMBERS – None

ABSENT: COUNCIL MEMBERS – Nakanishi

ABSTAIN: COUNCIL MEMBERS – None


JACQUELINE L. TAYLOR
Interim City Clerk

2000-83